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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/683,952	10/09/2003	Michael J. Sherrill	010072.02	2775
7590	09/13/2004		EXAMINER	
Gary W. Ashley Kosan Biosciences, Inc. 3832 Bay Center Place Hayward, CA 94545			HENRY, MICHAEL C	
			ART UNIT	PAPER NUMBER
			1623	

DATE MAILED: 09/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/683,952	SHERRILL ET AL.
	Examiner Michael C. Henry	Art Unit 1623

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-22 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-14 and 22 is/are rejected.
- 7) Claim(s) 2 and 15-21 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____.
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____.

DETAILED ACTION

Claims 1-22 are pending in application

Claim Objections

Claims 15-21 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim should refer to other claims in the alternative only and/or cannot depend from any other multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claims 15-21 **have not been further** treated on the merits.

Claim 2 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 2 recites the intended use of the composition. However, the claim is a composition claim and the recitation of the intended use of the composition is not a further limitation of the claim. In particular, the recitation of an intended use, must result in a tangible structural difference between the product of the independent claim and the product set forth in the dependent claim. In the absence of said structural difference between the product of the independent claim and that of the said dependent claim, said dependent claim is seen to be a substantial duplicate, and said recitation is not afforded critical weight and fails to further limit the product of said dependent claim. The examiner gives very little weight to said intended utility.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-8 and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Hofmann et al. (US 6,194,181 B1).

In claim 1, applicant claims “A pharmaceutical composition comprising an epothilone together with a pharmaceutically acceptable carrier, wherein the epothilone is provided in a therapeutically acceptable concentration upon administration to a patient.” Hofmann et al. disclose applicant’s pharmaceutical composition comprising an epothilone (epothilone B) and β -cyclodextrin together with a pharmaceutically acceptable carrier (water) (see example 2A, Table 1, col. 24, line 32-col. 25, line 17). It should be noted that Hofmann et al.’s composition contains water, which is a pharmaceutically acceptable carrier (see example 2A, Table 1, col. 24, line 32-col. 25, line 17). Claim 2 is drawn to a pharmaceutical composition of claim 1 wherein the composition is administered orally, is also anticipated by Hofmann et al. (see example 2A, Table 1, col. 24, line 32-col. 25, line 17). It should be noted that claim 2 is a composition claim and the recited intended use pertaining to oral administration of the said composition does not add to the patentability of the composition. In claim 3, applicant claims “The pharmaceutical composition of Claim 1, wherein the composition comprises at least one cyclodextrin.” Hofmann et al. disclose applicant’s pharmaceutical composition of claim 1, wherein the composition comprises β -cyclodextrin (see example 2A, Table 1, col. 24, line 32-col. 25, line 17). Claim 4, which is drawn to specific cyclodextrins including β -cyclodextrin, is also anticipated by Hofmann et al, since Hofmann et al.’s composition also contains β -cyclodextrin (see example 2A, Table 1, col. 24, line 32-col. 25, line 17). Dependent claims 5 and 7 which are drawn to compositions containing specific epothilone, including epothilone B and hydroxypropyl- β -

cyclodextrin, is also anticipated by Hofmann et al, since Hofmann et al.'s composition also contains epothilone B and hydroxypropyl- β -cyclodextrin (see example 2A, Table 1, col. 24, line 32-col. 25, line 17). Claim 22 is drawn to "A soft gel cap comprising a pharmaceutical composition of Claim 1." Hofmann et al. disclose applicant's pharmaceutical composition comprising an epothilone (epothilone B) and β -cyclodextrin together with a pharmaceutically acceptable carrier (water) (see example 2A, Table 1, col. 24, line 32-col. 25, line 17). It should be noted that Hofmann et al.'s composition contains water, which is a pharmaceutically acceptable carrier (see example 2A, Table 1, col. 24, line 32-col. 25, line 17)." Also, it should be noted that the said gel cap does not add to the patentability of the said composition.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 9-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hofmann et al.(US 6,194,181 B1).

In claim 1, applicant claims " A pharmaceutical composition comprising an epothilone together with a pharmaceutically acceptable carrier, wherein the epothilone is provided in a therapeutically acceptable concentration upon administration to a patient." Claims 6 and 8 are drawn to the pharmaceutical composition, wherein the epothilone is epothilone D and the cyclodextrin is sulfopropyl- β -cyclodextrin.

Hofmann et al. disclose a pharmaceutical composition comprising an epothilone (epothilone B) and β -cyclodextrin (see example 2A, Table 1, col. 24, line 32-col. 25, line 17).

The difference between applicant's claimed composition and the composition of Hofmann et al. is type of epothilone or the type of cyclodextrin claimed in the composition. However, Hofmann et al. disclose that the composition can contain, preferably epothilone C, D, E, F or especially A or in particular epothilone B, and cyclodextrins or cyclodextrins derivatives such as sulfo-lower-alkyl ethers (which includes sulfopropyl- β -cyclodextrin) (col.9, line 61 to col. 10, line 62).

It would have been obvious to one having ordinary skill in the art, at the time the claimed invention was made to prepare the composition of Hofmann et al. comprising any epothilone and cyclodextrin suggested by Hofmann et al., such as epothilone D and sulfopropyl- β -cyclodextrin, to be used as an anticancer drugs, based on need.

One having ordinary skill in the art would have been motivated to prepare the composition of Hofmann et al. comprising any epothilone and cyclodextrin suggested by Hofmann et al., such as epothilone D and sulfopropyl- β -cyclodextrin, to be used as an anticancer drugs, based on need.

In claim 9, applicant claims "A lyophilized mixture comprising an epothilone and a cyclodextrin. Dependent claims 10-14 are drawn to a lyophilized mixture comprising specific epothilones and cyclodextrins.

Hofmann et al. disclose a composition comprising an epothilone (epothilone B) and cyclodextrin (see example 2A, Table 1, col. 24, line 32-col. 25, line 17). Hofmann et al. disclose that the composition can contain, preferably epothilone C, D, E, F or especially A or in particular

epothilone B, and cyclodextrins or cyclodextrins derivatives such as sulfo-lower-alkyl ethers (which includes sulfopropyl- β -cyclodextrin) (col.9, line 61 to col. 10, line 62).

The difference between applicant's claimed composition and the composition of Hofmann et al. is that applicant's composition is lyophilized. However, it is common to prepare lyophilized composition of therapeutic agents, pharmaceuticals or drugs such as epothilone by conventional pharmaceutical acceptable methods such as lyophilization (for example, see US 6, 015,552, col. 5, lines 28-34).

It would have been obvious to one having ordinary skill in the art, at the time the claimed invention was made to prepare the epothilone composition of Hofmann et al. in the form of a lyophilized composition since epothilone is a therapeutic agent or drug and, it is common to prepare lyophilized composition of therapeutic agents, based on need.

One having ordinary skill in the art would have been motivated to prepare the epothilone composition of Hofmann et al. in the form of a lyophilized composition since epothilone is a therapeutic agent or drug and, it is common to prepare lyophilized composition of therapeutic agents, based on need.

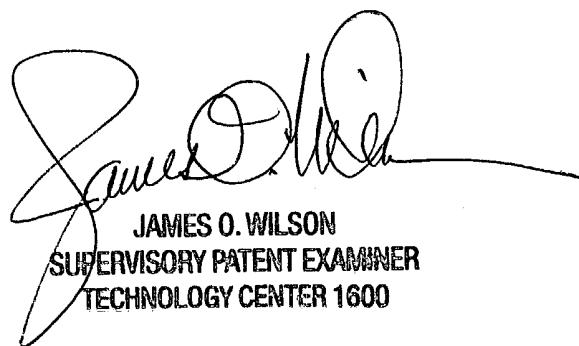
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Henry whose telephone number is 571-272-0652. The examiner can normally be reached on 8:30 am to 5:00 pm; Mon-Fri. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O. Wilson can be reached on 571-272-0661. The fax phone number for the organization where this application or proceeding is assigned is 703 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308-1235.

MCH

August 31, 2004.



JAMES O. WILSON
SUPERVISORY PATENT EXAMINER
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